

Centrally Speaking

A Cray Research Inc. Central Region Publication



Volume 1, Number 1, April 1985

April Fool's Virgin Edition



A NEW CENTRAL REGION HOME IN BOULDER

Construction is underway for new leased quarters to house the Region personnel assigned in Boulder. Target for completion is July 1, 1985. The building is north and adjacent to our present location. We will occupy a portion of the first (ground level) floor and all of the second floor. The ground level space is planned for our hardware and software training facility along with several small computer systems. This area will have a raised floor for ease of cabling and wiring of terminals and computers.

The second floor will house all the personnel located in our present quarters with the capability of limited office expansion. A

conference room will be available that can be divided into two smaller rooms by use of a folding wall system similar to the Mendota Heights training rooms. Offices will be located on the perimeter of the top floor with the interior being used for the conference room, a small eating area, copy room, and restrooms (with showers for our joggers and athletes). Each office will be wired for phone and terminal connections. The second floor will have a private CRAY entrance and private access to the first floor. We will occupy approximately 75% of this 11,000-sq.-ft. building.

The exterior of this structure will be brick and painted wood siding with a shake shingle roof.

AND THE WINNER IS . . .

Congratulations to Kathy Shockley, AIC at UIS, Kansas City, for her winning entry in the "Name the Newsletter" contest. Over 40 different suggested titles were submitted, and the Operations Committee agonized for almost an hour before the winner was chosen.

"Centrally Speaking" was chosen because of its appropriateness in the spirit of the Cray Style as well as its formal but friendly connotation.

open **letter** from

Paul Lalar

Hello to all of you. It is hard to believe that the U.S. Central Region is almost a hundred people strong now . . . and still growing. What started out as a two-man office (and my typewriter) in early 1977 has grown to the Region Office, two district offices, a sales office, and nine sites, supporting fifteen Cray systems.

Because of our current size and diverse geography we have lost the ease of face-to-face communication. We are too big now to rely only on the informal networks to give us the facts and news we need to do our jobs. I hope that "Centrally Speaking" will fill a gap in our current information network. In the months to come I will use this forum to communicate to all of you our Region's plans, objectives, and strategies. I hope that you, in turn, will make use of our Region newsletter to submit your own ideas, news, and opinions. "Centrally Speaking" is communication two ways: from your Region management to you and vice versa.

During 1985 I intend to be spending most of my time traveling in the Region and Canada. My focus will be to ensure that our marketing staff has the support it needs to continue to meet our Region's revenues and sales objectives. As I travel to our offices and sites, I also hope to meet all the faces behind the many new names on our roster. And I expect to see Central Region people continuing to exhibit the professionalism and personal responsibility that Cray Research has always required of us.

I look forward to seeing you and hearing from you.

Technical News



(L to R) Rosanne Balser, Ken Bosak, Jeff Opincar, Steve Twarowski, John Ingram, Don Balint, Jim Rye, Rod Munson.

AFGWC ACCEPTANCE

by Ron Larson and Tom Bentley

X-MP 122/60 has been installed and accepted at Air Force Global Weather Central (AFGWC), Offutt AFB, outside of Omaha. The system is an X-MP/22 with six DD29 disk drives and one million words of buffer memory. Currently only one CPU is under contract, so the system is executing with one CPU disabled. The primary contractor is Sperry with Cray Research as a subtier contractor. Sperry installed two 1100/72 systems to be used as data base machines as part of this contract. Sperry has also written and is responsible for the station being used at this installation.

Work on the acceptance of X-MP 122/60 started the first week in January before the system had even left Chippewa Falls with the installation of COS 1.14 plus modifications to support the new expander peripherals (this was the first system to ship with the Kennedy triple density tape drive, CDC 80 megabyte data pack drive, Versatec printer, and chronolog clock). John Ashman, Rosanne Balser, and Ron Larson configured and installed COS on January 7-9. Bob Welck arrived and reran the benchmarks on January 8. The system was then packed and shipped to Omaha on January 18.

Due to the condensation problem during shipping, the live test demo (LTD) that was part of the acceptance criteria was not performed until February 6. X-MP 122/60 passed the LTD with flying colors. The only critical part of the test was a mix of jobs that had to complete in less than 800 seconds. This mix had required 793 seconds during the benchmark under COS

1.12. At the LTD this same mix required only 698 seconds. We have a very happy customer! Upon completion of the LTD, the system immediately started a 30-day test and acceptance period with a 95% availability requirement. Again, the system performed very well, thankfully boring all of the extra coverage and on-site personnel with an availability exceeding 99.4%. The hardware performed at 100%. All of the three hours and twenty-four minutes of down time could be attributed to inexperienced operators or problems with the Sperry station, but we do have some gremlins in the operating system. Extra on-site support for Rosanne during the acceptance period was provided by John Ashman of Software Support, Ron Larson, and Kathy Shockley.

This was also the first customer installation of COS 1.14 (followed by Ford). This release appears to be very stable but does have some of the bugs associated with a new release such as a station display that crashes the system and a NSC concentrator that throws in the towel on a communication error.

The new site is covered twenty-four hours a day, seven days a week. The engineering staff of seven people is headed up by Jim Rye, EIC. Other team members include: Don Balint, Ken Bosak, John Ingram, Rod Munson, Jeff Opincar, and Steve Twarowski. Rosanne Balser is Site Analyst, and a very integral part of our Cray team. We are extremely proud of this new installation and all the people who had a part in its success.

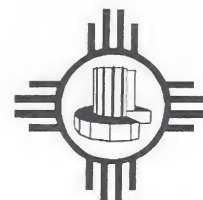
COS 1.14 INSTALLATION WORKSHOP

by Ron Larson

In early January a small band of hardy souls arrived in Chippewa Falls for what had been promised to be a frustrating week of working bad hours (10:00 p.m. to 10:00 a.m.) far from home on a throw-away project. It was time for the first-ever COS Installation Workshop!

This workshop made use of twelve hours a day of the Air Force Global Weather Central (AFGWC) factory trial week. The participants (Tom Engel, Lonnie Manning, Tom Mortensen, David Parks, Bob Sabourin, and Cassandra Shaw) were sent copies of the AFGWC configuration, preliminary copies of the 1.14 Operational Procedures Manual, assigned in teams of two (rearranged into groups of three) and left to coordinate their rooms, cars, and arrival on their own. A preliminary meeting was held at noon on January 7 where time assignments and final arrangements were made. The teams were then turned loose and left on their own for the rest of the week.

Obviously this was a "throw-away" project except for the knowledge and experience that was gained by the participants working with COS 1.14 (it was still in the prerelease format at the time) and valuable comments on the installation procedures. The participants have been enthusiastic in summing up their experience and have described it as being invaluable. Some criticisms are that the coordinator (Ron Larson) was not available enough for questions and that time slots should have been fixed for the week rather than shifting around so that all teams would get to work the worst hours. As the Coordinator, I will never try to do a workshop of this type again on a system that I am working on the other twelve hours of the day! All of the comments will be taken into account in planning future workshops.



HARD WORK BY MANY PEOPLE CULMINATES IN ACCEPTANCE OF CRAY X-MP SYSTEM BY FORD MOTOR COMPANY

Vince Wayland

On Tuesday morning, February 26, a smiling Rene Copeland got the document signifying the acceptance of Cray Serial Number 308 which was installed in late January at the Ford Engineering Computer Center.

The system passed the acceptance test with 100% CPU availability and over 98% software availability. Total hardware availability would have been 100% except for a balky disk drive.

Due to the software mix and the number of disk drives (22), around-the-clock analyst and engineering coverage was provided during the ten-day acceptance test.

Engineering support was provided by Bob Vanderveen, EIC, Scott Donaho, Gordon Konz, and Mel Hovanec, Site Engineers, assisted by Richard Garrett from Region Technical Support. Lonnie Manning and Bob Stedding, Site Analysts, provided the analyst coverage, assisted by Steve Gombosi and Vince Wayland, Region Analysts.

The unique part of the FORD contract was the Central Region's commitment to do special software: a quota system for permanent file disk space and "grouping" or "family" technique to handle collections of permanent file datasets by a single name. The quota system was designed and implemented mainly by Steve ("Dinner anyone? I need a cup of coffee") Gombosi with major assistance from Ron ("I signed up for Global Weather to avoid this") Larson. Lonnie ("YEESSS??") Manning made the modifications to account processing and is taking over maintenance. Tom ("I'm not sure what you want me to do") Engel got the project back on schedule by doing about a 1,000 lines worth of mods to STARTUP in one week that was short on the number of days but very long on the number of hours. At any rate, after many 16-hour days, and 7-day weeks, we made it into acceptance and passed successfully.

Kathy Shockley is in the process of designing and implementing the group concept which will interface with FORD's to-be-acquired Mass Storage System.

The system was so pleased with the initial version of QUOTAS that we have been asked to enhance it by doing the quota checking at write time instead of at PDM function time. Steve Gombosi is in the process of accomplishing this.

Interest in the Quota Mod has been expressed in other areas. There is some interest by Mendota Heights for use in their data center. We also intend to submit the first version, at least, to software development for possible inclusion in standard software. Lastly, Vince Wayland has been invited to present a paper on the Quota Mod in the Performance Workshop at CUG in May. Steve Gombosi will be presenting the subject at the Technical Symposium in June.

The CTSS World

by Bruce White

Of the fifteen Cray systems currently installed in the Central Region, seven of them are running the Cray Time Sharing System (CTSS). By the end of 1985 three more machines are scheduled to be running CTSS. With half of our installed base using this operating system, it is obviously very important to the Central Region and Cray Research. Current CTSS sites are LANL and AFWL; SNLA and the University of Illinois have plans to be running CTSS in the near future. Although we do not "support" the CTSS operating system at these sites, it is necessary for the Cray customer engineers, analysts, and sales people to understand how the system works, how to use it, and in the analysts' case, how to convert Cray software to work on CTSS.

All software released by Mendota Heights is COS dependent, i.e., the utilities, compilers, on-line diagnostics, and the IOS system are designed and written with the assumption that they will be run as part of the COS system. With each new software release these programs are modified by the Cray analysts to run correctly on CTSS. Likewise, the site engineers are effected by changes in the disk patterning and location of disk flaws and entry format. They

ISP PILOT AT GM RESEARCH

by Bob Sabourin

On April 15 a development group from Mendota Heights led by Brian Gaffey, will arrive at GM Research Labs to install the first production version of the Integrated Support Processor (ISP) software. ISP will allow GMR Cray users to perform, read, and write I/O operations at a record level using IBM peripheral disk drives. Currently, users stage their datasets between the Cray and MVS through the station. ISP will make this process unnecessary, thereby decreasing (by a possible factor of 6 to 10) the amount of time spent on I/O operations.

work with the analyst to develop and maintain special CTSS utilities for on-line CPU diagnostics as well as diagnosing memory and disk errors.

These engineering tools and the CTSS-dependent IOS and compiler software have been developed in the field. It is not supported by Cray software development nor consulted on by Software Field Support; it must be supported by Cray site employees. This keeps us all very busy.

To give the rest of the Region a feel for the level of activity, the following is a partial CTSS project list for the next two quarters: installing three (possibly four) X-MPs, hiring and training three analysts and three engineers, integration, and support of DD 49s on CTSS, modifying IOS version 1.14 to run with CTSS, implementing numerous CTSS/IOS enhancements, help SNLA and U of I install CTSS on their X-MP/24s and converting the 1.14 software release for use on CTSS.

In future newsletters we plan to keep the region updated on activities completed and projects planned in the world of CTSS.



CENTRAL

Region and District



R. A. Walan
(Acting) Sales Manager



John Howland
Business Manager



Laura Wallace
Human Resources Manager



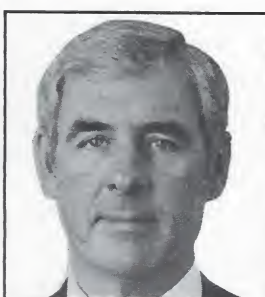
Teresa Fenn Homan
Supv. Support Services



John Carlson



Margaret Loftus



Bruce Kasson



Dick Morris



Don Whiting



Marcelo G.

Central Region Advisory Board

Advisory Boards were established for each domestic region, in order to more effectively implement Cray's 1984 decentralization plan. The Central Region's Board is made up of the six executives pictured above and chaired by John Carlson. Rather than reporting to one individual, Bob Walan is responsible to the Central Region Advisory Board for the overall performance of our Region.

The Advisory Boards are charged with the duty and responsibility for executive oversight of the Regions' business affairs. In this role the Boards review and

approve annual business plans, long-term goals, and consolidated business plans. The Boards also appoint Region General Managers and review organizational changes affecting the Regions.

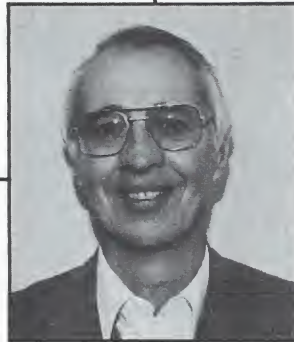
Periodically, Bob Walan and the Central Region management staff meet with the Central Region Board to review progress toward our marketing and sales goals as well as discuss technical and operational issues. The Central Region is hosting the next meeting of their Board on April 24th, 1985, in Boulder.

AL REGION

District Management



R. A. Walan
General Manager



Bob Biro
Director Technical Operations



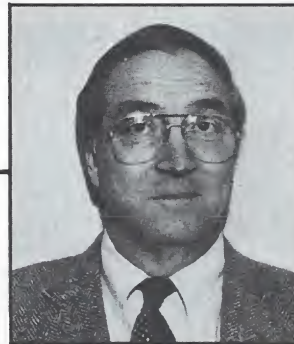
Sonya Anderson
Analyst Manager



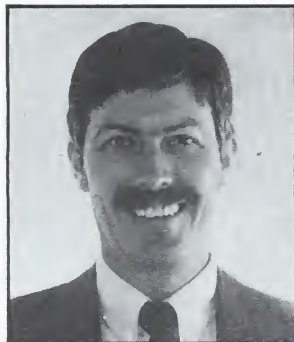
Steve White
Field Engineering Manager



o Gumucio



Bill Baird
District Support Manager



Bruce White
District Analyst Manager



Tom Bentley
District Engineering Manager

budgets. The
izational changes

meet with the
d revenue goals
ion will be
ider.

Marketing News

by Mark Willoughby and Bob Biro

Along with the Ford (Detroit) and the Air Force Global Weather Central Command (Omaha), we are hoping to see a CRAY installed this year at McDonnell-Douglas in St. Louis, Missouri. Allen Torres and Bob Welck have worked vigorously to show the capabilities of a CRAY to McDonnell scientists and engineers. McDonnell-Douglas would be using their system for finite element analysis, aerodynamics, stress analysis, and general aerospace research.

Allan is also negotiating with the National Center for Atmospheric Research (NCAR) in Boulder for a new system to be installed in the third quarter of 1985.

Meanwhile, back in Motown, Rene Copeland and Dennis Lambka are entering into first-time negotiations with General Motors' new subsidiary, Electronic Data Systems (EDS) for a bevy of systems throughout GM. The General Motors Research Lab at Warren, Michigan, is considering upgrading their CRAY-IS to a new X-MP System.

Another new Cray offering that had its genesis in the Central Region, the Integrated Support

Processor, will begin six months of beta testing at GM's Research Labs in Warren on April 15th. The ISP allows a CRAY to access IBM-compatible records individually on any IBM-compatible peripheral, without having to read an entire file. If successful, the ISP will enter our product mix later this year.

The ever-agile Rene, when not hurdling through airports, is also negotiating with the University of Illinois, a recipient of one of the four National Science Foundation grants for a supercomputer center. The University of Illinois in Champaign-Urbana wants an X-MP/24 this summer to provide a scientific computational resource on a national basis.

In sunny New Mexico, Bob Hippe, the elder statesman of Cray's sales force, is busy preparing for a new Department of Energy (DOE) procurement, anticipated for next year, for a Class VII computer. All of Cray's systems to date have been classified as Class VI. This competition has significant implications because once a vendor wins a contract for a new Class of computer system (Class VII is this case), they become a significant supplier for that level of system for the DOE. Additionally, other government agencies often adopt DOE

standards when writing supercomputer specifications.

Bob had the pleasure recently to escort four German scientists from the German nuclear firm of Kernforschungsanlage to Los Alamos National Laboratories. The Germans, guests of Cray Germany, were interested in graphics, CTSS and multi-tasking. Enroute through the scenic Jezmez Mountains, where they were caught by a sudden snowstorm and, wearing suits and ties, had to install tire chains on Bob's Cadillac. Says Bob, "they really enjoyed that taste of the West."

Mark Willoughby has been beating the bushes looking for new opportunities for CRAY systems in the Central Region. We expect Mark to wear out three suitcases and six pairs of shoes by May, 1985. Please look up and wave at Mark as he probably is flying overhead.

Bob Cox, our Spook, is continuing his defense system selling. His style is so secret and devious that no one has seen him in the daylight for some time. If you know the whereabouts of our Spook, you shouldn't.

Software Training Planning

Kathy Shockley

As software training responsibilities spread out into the field we will see some changes in our approach to building and maintaining our technical edge. Software Training in Mendota Heights will provide only a group of core courses based on the current supported software product set. They will no longer provide training for customers at sites. (Historically, the Central Region has not used Software Training for on-site customer training so this will not impact us a great deal.)

As a region we will be expected to provide training for the products that the centralized training function no longer supports. We will also provide a level of pre-training for our new hires before they go to Mendota for their first formal classes. And we will provide the trainer for any customer on-site courses. If this sounds familiar it is because various sites at various times throughout the region have provided these very services, only now it is officially expected for us.

For the new hire, the decentralization of training means a pre-training period before starting classes in Mendota. This pre-training

provide some on-site time, familiarization with routine paperwork (time cards, expense reports, etc.), and a self-study course in COS JCL. We will still rely on Software Training to provide the core courses for CAL/COS/IOS or CAL2/UNIX/C, whichever is appropriate. We will also encourage taking those classes at a once-a-month pace rather than the five-week marathon in Mendota.

For the entire Central Region analyst community the decentralization means increased attention to skills maintenance. This will take the form of more workshops, which have been well received in the past, and the addition of regional seminars to give us the opportunity to share our areas of expertise with each other. It is hoped that the increased offering of these types of opportunities will allow everyone to attend one or two a year.

Having a regional training function will provide us a focal point for the various training activities we have become involved in and provide a center for the collection and dissemination of and flexibly to the training needs of our customers and ourselves.

both corporate and field-developed training material. It will enable us to respond quickly. In an effort to try to learn both our needs and our resources, please provide us with your thoughts on the following:

Workshop Topics (new or repeat). A workshop is one or more days of supervised work in a specific area which emphasizes hands-on experience. For example: COS dump analysis and COS/IOS installation have been offered. Under Consideration: IOS dump analysis, site set-up for Accounting, Security, and Privacy and "live" crash analysis.

Seminar Topics. A seminar is a half-day presentation on a specific topic. Under Consideration: Tuning JSH and CTSS overview for COS analysts.

Be sure to include any topics you would like to present in addition to those you would like to attend.

Has anyone developed any self-instructional material? Please let us know of any of these types of resources that can be shared with the rest of the region.

OBSERVATIONS FROM THE NEW GUY

by Steve White

The past few weeks have been very exciting and informative for me, and I would like to share with you some of what I have learned and the excitement I feel.

First of all some observations . . . Cray Research is very well thought of and respected by the computer community and our customer base within the Region. And that applies to both our products and our service. Customers I have talked with have been complimentary about both Field Engineering and Analysts individually and collectively. They speak highly of your commitment, response, and expertise. They seem to feel that Cray Research's product and service quality reflect an eagerness, enthusiasm, and pride in workmanship that models the best in American companies. I am sure you feel as proud of that reputation as I did in hearing it.

Secondly, I found a commitment and dedication to excellence in Chippewa Falls and Mendota Heights that was truly stimulating. They too are proud of their products and service and are anxious to support us in providing the very best to our customers. That same attitude and dedication also seems to exist in Sales, Administration, and Management groups throughout our company.

So, I am very glad to be part of this exciting and energetic company, and proud to be associated with such a fine group of professionals. Our

products are solid, our customers and the public think highly of us, and our markets are growing. The future looks very bright indeed.

And who is Steve White? Well, to begin with I have been in the service business for over thirty years in one form or another. I have been a trainee (several times), a trainer, a customer engineer, a Technical Specialist, and in several levels of management. Along the way I have developed some principles to believe in and do business with. Simply stated they include:

- It is Field Engineering's job to maintain our equipment and accounts in such a way as to create a favorable marketing environment for future products.
- Organizations tend to mirror their leaders. As leaders, it is our job to model positive, ethical, and professional behavior.
- People enjoy their work if given clear, specific, and obtainable goals and are awarded appropriately when they achieve them.
- The performance of our equipment is paramount, and our own standards of performance ought to be higher than anyone else's for that equipment.
- If leaders take care of their people and their customers, numbers will take care of themselves.

TRAINING CALENDAR

Contact Laura Wallace, Boulder Region
Office for Information

- **Effective Performance Review**, Susan Gebelein, Trainer. April 25-26, Boulder, Colorado. Sponsored by the Central Region
- **Individual Development Planning**, May 20, Dallas, Texas. Co-sponsored by the Petroleum and Central Regions
- **Customer Relations**, Chuck Holcombe, Trainer. June 4-5 and June 6-7 (2 sessions), Annapolis, Maryland. Sponsored by the Eastern Region (Central Region participants invited on a space-available basis.)
- **Dealing With Performance Problems**, June 24. Co-sponsored by the Petroleum and Central Regions

Tips & Trivia

Did you know . . . ?

- That the average age of Central Region employees is 32.9
- That the oldest is 62 (guess who)
- That the youngest is 21

Ben Franklin is credited with the advice: "Never lie. Some day you may have to and you'll get away with it only if you have a reputation for never lying." So, don't say (if it isn't so) that the letter is already in the mail, the box is on the truck, your boss is enroute, or anything else that could destroy your credibility.

HR Corner

EMPLOYEE HANDBOOK UPDATES . . . On the Way

A complete revised and updated Employee Handbook is at the printers in Minneapolis. We will be distributing these to all sites and District offices around April 15. A new section on Health Insurance Benefits and a revised Tuition Assistance Plan will be included. Also, for those of you with interest in the Stock Purchase Investment Plan, "everything you've ever wanted to know" about purchasing Cray Research stock will be detailed.

Any questions regarding Cray's Benefit programs should be directed to Teresa Homan or Laura Wallace at the Boulder Region Office.

1985 HOLIDAY SCHEDULE

New Year's Day	- Tuesday, January 1st
Memorial Day	- Monday, May 27th
Independence Day	- Thursday, July 4th
Cray Day	- Friday, July 5th
Labor Day	- Monday, September 2nd
Thanksgiving Day	- Thursday, November 28th
Day After Thanksgiving	- Friday, November 29th
Christmas Eve	- Tuesday, December 24th
Christmas Day	- Wednesday, December 25th

PAYROLL DEDUCTION CODES

A	= Advance
B	= Health Care Expense Account
C	= 401 (k) Investment Savings
D	= Miscellaneous
I	= Cray Health Plan
K	= Stock Purchase Investment Plan
L	= Optional Life/AD & D Insurance
S	= Automatic Deposit to Savings Account
W	= United Way
X	= Automatic Deposit to Checking Account

Region People Newcomers

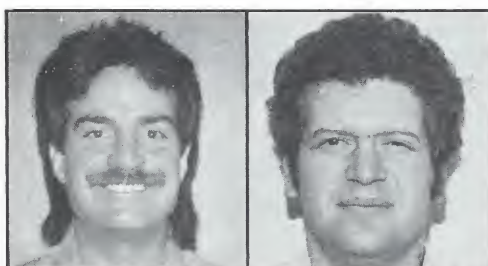


Jason Smith

Gary Amundson

JASON SMITH, ACE, currently in training at Chippewa Falls, last worked for Pentax Corporation as an electronic technician and joined Cray after completing a couple of semesters in the CU School of Engineering. Jason has a wife, Terry, and a daughter, Rachel. His special interests are astronomy, electronics, and computer programming.

GARY AMUNDSON, ACE, currently in training at Chippewa Falls, hails from Steamboat Springs, Colorado. He attended Red Rocks Community College and has worked installing car stereo systems. Gary is still a bachelor but does have a special woman in his life. His other loves include motorcycles, both road touring and racing, camping, snowmobiling, and trying new things.



Allen Bullweg

Rusty Brown

ALLEN BALLWEG, CE, starts training in Chippewa Falls in mid-April. Allen spent 12 years as a professional musician (bass player) playing hotels and night clubs all over the U.S., Canada, and Europe before making a major career change into electronics. Allen has worked at LANL, Wang Labs, and Symbolics (artificial intelligence) before joining Cray in March. Allen's interests still include traveling, stereo equipment, and music.



Margaret Segura

Kay Vaughan

MARGARET SEGURA, Assistant Secretary in the New Mexico District office, recently moved back to the lovely Albuquerque climate from Trinidad, Colorado. Margaret and her husband have three daughters and a son ranging in age from seven to eighteen. In her spare time she volunteers as room mother at her children's school. Margaret is a jogger and volleyball player and also enjoys roller skating.

KAY VAUGHAN, Administrative Assistant in the Boulder Region Office, has lived in the Boulder area for ten years. Before joining Cray she worked in the Marketing Department of Otrona Advanced System, Corp. (a portable computer company) and in the Research and Analysis Unit of The National Center for Higher Education Management Systems. In her spare time, Kay enjoys water skiing, gardening, and horseback riding.

HAROLD ("RUSTY") BROWN, ACE, will be leaving his Golden, Colorado home in April for training in Chippewa Falls. Rusty received an A.A. Degree from Red Rocks College and last worked for Snap-On Tools as an automatic test equipment repairman. He is a bachelor now but in his words, "I'm engaged to a super wonderful woman." Rusty loves the outdoors, fishing and camping in the summer, and skiing in the winter (when he's not experimenting with home home computer).



Sylvia Crain

Jim McInerney

SYLVIA CRAIN, Site Analyst (assigned to LANL but awaiting security clearance), just graduated from the University of New Mexico in Computer Science before hiring on with Cray. Prior to school she used her B.S. training in Biology at the Inhalation Toxicology Research Institute studying the deposition of environmental pollutants in living organisms. Sylvia and her husband, James, enjoy cross-country skiing and hiking. Gardening and needlework are her special hobbies.

JIM MCINERNEY, Site Analyst at NCAR, recently completed his M.S. Degree in Computer Science from Montana State University before signing on with the Central Region in December, 1984. Previous to Cray he worked as a Research Meteorologist for the State of Montana. Jim, his wife, Cheryl and daughter Lynn (age 4) are expecting a new addition to the family at any moment. In the meantime, Jim plays basketball and reads science fiction and mystery novels.

Promotions Since January, 1985

- Rosanne Balser to AIC, AFGWC
- Larry Clay to EIC, SDNLA
- Rob Cunningham to AIC, LANL
- Teresa Fenn Homan to Support Services Supervisor - Boulder Region Office
- Larry Knepper to EIC, AFWL
- Jim Rye to EIC, AFGWC
- Cassandra Shaw to AIC, SNLA
- Allan Torres to Account Manager

Papers and Publications

- Jeff Konz, Sr. Sales Analyst, Detroit, will be attending *Advances in Finite Element Methods in Structural Mechanics*, April 1-5, 1985, sponsored by the School of Engineering at MIT.
- Bob Welck, Senior Sales Analyst, Boulder, will be presenting a contributed paper at the 1985 Science & Engineering Symposium, April 14-17, 1985. The title of his Technical Report is "Multitasking a Global Spectral Atmospheric Forecast Model."
- Bob Welck has written an article entitled "A Simple Model for Parallel Processing on the Cray X-MP" which will appear in the March 1985 issue of *Computer*, published by IEEE Computer Society.
- Tom Engel, AIC, NCAR, has co-authored a paper entitled "A Technique for Correcting Humidity Errors in Mesometeorological Data" with Charles G. Wade, Convective Storms Division, NCAR. The paper will be presented at the International Symposium on Moisture & Humidity in Crystal City, Virginia on April 15-18, 1985.
- Tom Mortensen, Acting AIC at University of Minnesota, gave a tutorial on Cray Supercomputers to the University of New Mexico student chapter of the Association for Computing Machinery. They expressed their thanks for the appreciation they gained of the state-of-the-art and future of supercomputer technology.

CENTRAL REGION MEETING

by Teresa Homan

Our 1985 Region Meeting is scheduled for June 13 and 14 at the Jackson Hole Racquet Club located approximately 8 miles from Jackson, Wyoming.

The Racquet Club is the most complete complex in the Jackson Hole area. It sits at the base of the Teton Range giving the feeling of mountain living in a beautiful alpine setting.

Rooms are available in three sizes: one bedroom, one bedroom with loft, and two bedroom with loft. They come fully equipped with kitchen, fireplace, color TV, washer/dryer, telephone, and private balcony. Use of the indoor/outdoor tennis courts, racquet ball courts, steam rooms, saunas, whirlpools, indoor/outdoor swimming pool, running track,

weight room, and lockers is included in the guest price.

As in the past, a few guests will attend from corporate. At this time we have no confirmations.

I received several good ideas on subject matter, however, I would like to hear from more of you. Here are some of the ideas:

- Site Reports/Introductions
- Teamwork On-site
- Field Needs of the Region Office
- Training Report

We are looking forward to seeing everyone again and expect to have a wonderful meeting.

RELOCATION REMINDER

Corporate Headquarters has arranged for special discounts for moving and storage of new hire or employee property during temporary or permanent relocations. In order to take advantage of these discounts, relocation requests must be made as follows:

- The hiring or supervising manager must phone in details of the move to Laura Wallace, as the Region Contact, no later

than 7 working days before the move date.

- Laura phones Cray Corporate and arranges to have the moving company contact the employee directly to confirm the relocation schedule.
- The employee should reconfirm the schedule with a the moving company 24 hours before pickup.

AND FROM THE BARDS CORNER

A Dew Drop

by Bob Hippe

One day you must come
with me
And we will look into a
dew drop.
Then we can both see
the reflection.

I can enjoy the image
of your soul,
It will have a soft
warm glow
And be a comfort to me.
A pinnacle on which to guide,
If in my wanderings I
become lost,
A mantel of goodness
for trying times,
A source of beauty and inspiration
on dark days.
It will be a needed and
treasured gift.
Perhaps in return you
can look
Deeper than any other has
tried
To see some usefulness
in my reflection.
I want there to be some
strength
For you to learn to depend
on.
A touch of boldness, a bit
of humor,
To bring a smile to your
lips
And a bounce to your gait.
No matter what we see
Or what we take from it,
It will be a good
experience,
And at the very least,
We will see a beautiful
dew drop.

Events Calendar

Science and Engineering Symposium

April 14-17, Minneapolis
Attending: B. Biro, B. Welck, J. Konz, T. Warnock

Cray Users Group (CUG)

May 7-9, Stockholm, Sweden
Hosted by Saab

CTSS Analyst Meeting

May 13, Minneapolis

International Analysts Meeting

May 14-16, Minneapolis B. Sabourin, Planning Chairman

Central Region Meeting

June 13-14, Jackson, Wyoming
(see article this issue)

Technical Symposium

June 17-21, Wisconsin
Attending: C. Hannu, Planning Task Force;
Nominated From the Central Region: Ron Larson, Steve Gombosi, Jim Allshouse

INTERNATIONAL ANALYST MEETING

The International Analyst Meeting will be held May 13 - 15 in Minneapolis at the Radisson South Hotel. This meeting is sponsored once a year by Cray Research Regional Management to provide corporate and technical update, social interaction, and a communication tool for analysts throughout the company. A Planning Committee consisting of Jim Amick (Petroleum), Bing Young (Western), Rick Tillbrook (Eastern), Tom Mortensen (Central), Kathy Hollander (Mendota), and Bob Sabourin (Central) was formed in October of 1984 and has been working on the meeting format and arrange-

ments. (Editor's Note: Bob was the Chairman of this Committee and has done an excellent job!)

Corporate updates will be led by keynote speaker John Rollwagen. Technical updates and analyst questions and suggestions will be handled through technical sessions hosted by Regional and Mendota Heights experts. Social functions will include a buffet dinner on May 14 and an open house at Mendota Heights on May 15.

Look forward to seeing those of you who can attend!



Central Region Spook proves "spooky" scientific theory. Says Bob Cox: "You put the egg on a table, it shudders for a second, and then it stands up! A marvel of the Equinox."

Classified

Do you have something to sell?
Is there something you want to buy?
Use our **FREE Classified** column.
Submit your ads to "Classified,"
Central Region Office, Boulder

Letters to the Editor

Do you have a suggestion?
Do you have a gripe?
Do you have an opinion?
Our "letters to the editor" column is a place for you to make your thoughts known to all Central Region employees. Letters may be submitted anonymously but will be edited for "taste" and space availability. Mail your letters to "Letters to the Editor," Central Region Office, Boulder.

Centrally Speaking is Published by the
Central Region, Cray Research, Inc.
5330 Manhattan Circle
Boulder, Colorado 80303
Telephone (303) 499-3055

R.A. Wan, General Manager
Central Region

Laura Wallace, Editor